

LISTING OF CLAIMS

1-29. (Canceled)

30. (Previously Presented) A light transmitting photochromic lens comprising photochromic dyes and having a visible colored appearance, the photochromic lens further comprising a multi-layer thin film coating applied on an outer surface thereof, the multi-layer thin film coating comprising a plurality of dielectric layers, wherein the film coating reflects an amount less than about 15% of spectral ultraviolet radiation in a range between 315 and 400 nm and reflects an amount equal to or greater than about 10% of light in the visible spectrum in a range between 410 and 800 nm so that the lens exhibits the visible colored appearance.

31. (Previously Presented) The lens of claim 30, wherein the colored appearance comprises a mirror like appearance.

32. (Previously Presented) The lens of claim 30, wherein the colored appearance comprises a white silver like appearance.

33. (Previously Presented) The lens of claim 30, wherein the multi-layer thin film coating reflects less than 6% of spectral ultraviolet radiation.

34. (Previously Presented) The lens of claim 30, wherein the plurality of dielectric layers comprises SiO₂ layers.

35. (Previously Presented) The lens of claim 30, wherein the plurality of dielectric layers comprises TiO₂ layers.

36. (Previously Presented) The lens of claim 30, wherein the plurality of dielectric layers are arranged to alternate low and high refractive indices.

37. (Previously Presented) The lens of claim 30, wherein the plurality of dielectric layers comprises ZrO_2 layers.

38. (Previously Presented) The lens of claim 30, wherein the plurality of dielectric layers comprises twelve layers.

39. (Previously Presented) The lens of claim 38, wherein the multi-layer thin film coating comprises a twelve layer arrangement comprising alternating TiO_2 and SiO_2 layers.

40. (Previously Presented) The lens of claim 38, wherein the multi-layer thin film coating comprises a twelve layer arrangement comprising TiO_2 , SiO_2 and ZrO_2 layers.

41. (Canceled)

42. (Previously Presented) The lens of claim 30, wherein the plurality of dielectric layers comprises up to 100 layers.

43. (Previously Presented) The lens of claim 30, the lens having a photochromic range of greater than about 25%.

44. (Previously Presented) The lens of claim 30, the lens having a photochromic range of greater than about 40%.

45. (Previously Presented) The lens of claim 30, the lens having a photochromic range of greater than about 90%.

46. (Previously Presented) The lens of claim 30, the lens having a photochromic range of greater than about 97%.
47. (Previously Presented) The lens of claim 30, the lens having a photochromic range of approximately the activation value of the uncoated photochromic lens.
48. (Previously Presented) The lens of claim 39, wherein the dielectric layers are selected and arranged in a sequence: TiO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂, so as to obtain a silver mirror like appearance of the lens.
49. (Previously Presented) The lens of claim 40, wherein the dielectric layers are selected and arranged in a sequence: TiO₂, SiO₂, TiO₂, SiO₂, ZrO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂, ZrO₂, SiO₂, so as to obtain a silver mirror like appearance of the lens.
50. (Previously Presented) The lens of claim 30, wherein the lens is a sunglass lens.
51. (Currently Amended) A method of creating a light transmitting colored photochromic lens comprising photochromic dyes, the method comprising forming a photochromic lens part and applying a plurality of dielectric layers onto the outer surface of the [[a]] photochromic lens part wherein the plurality of dielectric layers collectively reflect an amount less than about 15% of spectral ultraviolet radiation in a range between 315 and 400 nm and reflect an amount equal to or greater than about 10% of light in the visible spectrum in a range between 410 and 800 nm so that the lens exhibits a visible colored appearance.

52. (Previously Presented) The method of claim 51, further comprising applying a twelve layer arrangement comprising alternating TiO_2 and SiO_2 layers.

53. (Previously Presented) The method of claim 52, further comprising applying twelve layers of TiO_2 and SiO_2 on the photochromic lens in a sequence: TiO_2 , SiO_2 , TiO_2 , SiO_2 , TiO_2 , SiO_2 , TiO_2 , SiO_2 , TiO_2 , SiO_2 , TiO_2 , SiO_2 , in order to obtain a silver mirror like appearance.

54. (Previously Presented) The method of claim 51, further comprising applying a twelve layer arrangement comprising TiO_2 , SiO_2 and ZrO_2 layers.

55. (Previously Presented) The method of claim 54, further comprising applying twelve layers of TiO_2 , SiO_2 and ZrO_2 on the photochromic lens in a sequence: TiO_2 , SiO_2 , TiO_2 , SiO_2 , ZrO_2 , SiO_2 , TiO_2 , SiO_2 , TiO_2 , SiO_2 , ZrO_2 , SiO_2 , in order to obtain a white silver like appearance.

56-60. (Canceled)